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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

### Rec'd PCT/PTO 15 DEC 2004

REC'D 1'3 OCT 2004

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Applicant's 22188/0		ent's file reference	FOR FURTHER A	CTION	See Notification	on of rawsmittal of International camination Report (Form PCT//PEA/416)
International application No. International filing date			(day/mon	th/year)	Priority date (day/month/year)	
PCT/US	03/19	9133	17.06.2003	•		17.06.2002
G01N29		ent Classification (IPC) or bo	oth national classification	and IPC		
Applicant SWAGE	LOK	COMPANY et al.				
1. Thi	s inter hority	national preliminary exan and is transmitted to the	nination report has be applicant according to	en prepa o Article 3	red by this Inte 6.	rnational Preliminary Examining
2. This	2. This REPORT consists of a total of 6 sheets, including this cover sheet.					
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
The	These annexes consist of a total of sheets.					
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I	$\boxtimes$	Basis of the opinion				
II		Priority				
111		Non-establishment of o	pinion with regard to r	novelty, ir	nventive step a	nd industrial applicability
IV		Lack of unity of invention	on			
V	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Vi		Certain documents cite	d			
VII		Certain defects in the ir	• •			
VIII		Certain observations or	n the international app	lication		
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07.01.20		on or the demand			completion of th	s report
07.01.20	<b>U</b> -1			11.10.	2004	
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US 03/19133

I. Basis	of the	report
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۱.	With regard to the elements of the international application (Replacement sheets which have been furnished to
	the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"
	and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

Description, Pages		scription, Pages					
	1-1	7	as originally filed				
Claims, Numbers							
	1-13	3	as originally filed				
Drawings, Sheets							
	1/4-	4/4	as originally filed				
2.	Witl lang	h regard to the <b>langu</b> guage in which the in	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.				
	The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:				
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.⊹	Witl inte	h regard to any <b>nucl</b> e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application; the examination was carried out on the basis of the sequence listing:				
		contained in the inte	rnational application in written form.				
		filed together with th	ed together with the international application in computer readable form.				
		furnished subseque	ntly to this Authority in written form.				
		furnished subseque	ntly to this Authority in computer readable form.				
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	ne amendments have resulted in the cancellation of:					
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
			•				

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

No:

1-13

Inventive step (IS)

Yes: Claims

Claims

Claims

2-4

Industrial applicability (IA)

Yes: Claims

1,5-13 1-13

No: Claims

2. Citations and explanations

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT - SERVE

International application No. PCT/US 03/19133

**EXAMINATION REPORT - SEPARATE SHEET** 

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

#### 1. Cited documents

The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

- D1: US-B-6 360 6091 (WOOH SHI-CHANG) 26 March 2002 (2002-03-26)
- D2: WO 99/31499 A (TRICORN GROUP PLC; MECON LIMITED (GB); GORMAN MICHAEL (GB); HARPER MA) 24 June 1999 (1999-06-24)
- D3: US-A-3 218 845 (WORLTON DANIEL C) 23 November 1965 (1965-11-23)
- D4: DEUTSCH V ET AL: "3.2 Ultraschallprüfgeräte"
  ULTRASCHALLPRUEFUNG: GRUNDLAGEN UND INDUSTRIELLE
  ANWENDUNGEN, 1997, pages 55-73, XP002279058 BERLIN
  HEIDELBERG NEW YORK
- D5: SADOWSKY J: "Investigation of signal characteristics using the continuous wavelet transform" JOHNS HOPKINS APL TECH. DIG. (USA), JOHNS HOPKINS APL TECHNICAL DIGEST, JULY-SEPT. 1996, JOHNS HOPKINS UNIV. APPL. PHYS. LAB, USA, vol. 17, no. 3, July 1996 (1996-07), pages 258-269, XP002286231 ISSN: 0270-5214

#### 2. Inventive Step (Art. 33(3) PCT)

#### Claim 1:

Claim 1 do not appear to fulfill the requirements of the PCT set out in Article 33(3) with respect to an inventive step:

D1, which is considered to represent the most relevant state of the art, discloses a an apparatus suitable for evaluating a fitting assembly of the type having a conduit and a fluid coupling installed thereon, comprising: a source (18,22, fig. 1A, D1) adapted to apply mechanical energy waves into the conduit (18,22, fig. 1A and col. 8, lines 30-32, D1); said source receiving reflected energy waves and producing a signal related thereto (18,22, fig. 1A, D1); and an analyser (14, fig. 1A and col. 5, lines 40-45, D1) that determines a



characteristic of the conduit, such as distances and location of discontinuities, as a function of said reflected portions of said energy waves (abstract, D1).

Thus, the subject-matter of claim 1 differs in that the apparatus is a hand-held tool and in that the fitting assembly installed on the conduit is investigated.

The problem to be solved by the present invention may be regarded as determining a characteristic of the fitting assembly.

It is obvious for the skilled person that the apparatus disclosed in D1 can be adapted to solve this technical problem. He would therefore provide an analyser that produces an output for a characteristic of the fitting assembly, e.g. the position of an end of the conduit in the fluid coupling, which comes merely to the determination of a distance within the conduit.

Moreover, it is obvious for the skilled person that such an apparatus can be designed as a hand-held apparatus as shown on page 70, last paragraph and figure 3.34, D4.

Therefore, claim 1 is not inventive.

#### **Dependent claims:**

The dependent claims 5-13 appear to relate to mere design modifications, consequential features, conventional features or features already present in the arrangements of D1 to D5 and, therefore, do not appear to contain any additional features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT with respect to an inventive step.

#### 3. Miscellaneous

- a. The prior art D1, D2 and D3 is not identified in the description and the relevant background art disclosed therein contrary to Rule 5.1a(ii) PCT
- b. The independent claim 1 is not in the **two-part form** as required by Rule 6.3(b) PCT.
- c. The features of the claims are not provided with **reference signs** placed in parentheses to increase the intelligibility of the claims (Rule 6.2(b) PCT).

INTERNATIONAL PRELIMINARY International application No. PCT/US 03/19133 EXAMINATION REPORT - SEPARATE SHEET

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